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1: AY046923. *Azospirillum bras...*[gi:21326609]

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DEFINITION *Azospirillum brasilense* acetoacetyl-CoA reductase (phbB) gene,  
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ACCESSION AY046923  
VERSION AY046923.1 GI:21326609  
KEYWORDS  
SOURCE *Azospirillum brasilense*  
ORGANISM *Azospirillum brasilense*  
Bacteria; Proteobacteria; Alphaproteobacteria; Rhodospirillales;  
Rhodospirillaceae; *Azospirillum*.  
REFERENCE 1 (bases 1 to 2334)  
AUTHORS Kadouri, D., Burdman, S., Jurkevitch, E. and Okon, Y.  
TITLE Identification and Isolation of Genes Involved in  
Poly(beta-Hydroxybutyrate) Biosynthesis in *Azospirillum brasilense*  
and Characterization of a phbC Mutant  
JOURNAL Appl. Environ. Microbiol. 68 (6), 2943-2949 (2002)  
MEDLINE 22034968  
PUBMED 12039753  
REFERENCE 2 (bases 1 to 2334)  
AUTHORS Kadouri, D.E., Jurkevitch, E. and Okon, Y.  
TITLE Direct Submission  
JOURNAL Submitted (18-JUL-2001) Department of Plant Pathology and  
Microbiology, The Hebrew University Of Jerusalem, Faculty of  
Agricultural, Food and Environmental Quality Sciences, Rehovot  
76100, Israel  
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Revised: July 5, 2002.

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Mar 6 2003 11:06:01

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1: AB085816. Pseudomonas putid...[gi:21218116]

Links

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 REFERENCE 1  
 AUTHORS Beijiu, C. and Suwen, Z.  
 TITLE PHB synthesis genes in Pseudomonas sp  
 JOURNAL Published Only in Database (2002)  
 REFERENCE 2 (bases 1 to 9118)  
 AUTHORS Beijiu, C. and Suwen, Z.  
 TITLE Direct Submission  
 JOURNAL Submitted (26-MAY-2002) Chen Beijiu, Anhui Agriculture University,  
 Life Science; 130# Changjiang West Road, Hefei, Anhui 230036, China  
 (E-mail: swzhu@mail.hf.ah.cn, Tel: 8655128237953464)

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Links

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REFERENCE 1 (bases 1 to 2829)  
AUTHORS Kim, J.-H. and Lee, J.K.  
TITLE Cloning, nucleotide sequence and expression of gene coding for poly-3-hydroxybutyric acid (PHB) synthase of *Rhodobacter sphaeroides* 2.4.1  
JOURNAL J. Microbiol. Biotechnol. 7, 229-236 (1997)  
REFERENCE 2 (bases 1 to 2829)  
AUTHORS Kim, J.-H. and Lee, J.K.  
TITLE Direct Submission  
JOURNAL Submitted (13-OCT-1998) Life Science, Sogang University, Mapo, Shin-su Number 1, Seoul 121-742, Korea  
REFERENCE 3 (bases 1 to 2829)  
AUTHORS Kim, J.-H. and Lee, J.K.  
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JOURNAL Submitted (04-NOV-1998) Life Science, Sogang University, Mapo, Shin-su Number 1, Seoul 121-742, Korea  
REMARK Nucleotide sequence update by submitter  
COMMENT On Jan 10, 2003 this sequence version replaced gi:3860090.  
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ACCESSION AJ006237  
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ORGANISM Azorhizobium caulinodans  
Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;  
Hyphomicrobiaceae; Azorhizobium.  
REFERENCE 1  
AUTHORS Mandon,K., Michel-Reydellet,N., Encarnacion,S., Kaminski,P.A.,  
Leija,A., Covallos,M.A., Elmerich,C. and Mora,J.  
TITLE Poly-beta-hydroxybutyrate turnover in Azorhizobium caulinodans is  
required for growth and affects nifA expression  
JOURNAL J. Bacteriol. 180 (19), 5070-5076 (1998)  
MEDLINE 98422458  
PUBMED 9748438  
REFERENCE 2 (bases 1 to 1752)  
AUTHORS Michel-Reydellet,N.  
TITLE Direct Submission  
JOURNAL Submitted (20-MAY-1998) Michel-Reydellet N., Biotechnologie,  
Institut Pasteur, 25 rue du Dr Roux, Paris, 75724, FRANCE  
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Links

LOCUS ALPHAC 275 bp DNA linear BCT 12-MAY-1998

DEFINITION Pseudomonas sp. phaC gene.

ACCESSION Z80158

VERSION Z80158.1 GI:3115089

KEYWORDS phaC gene; polyhydroxybutyrate synthase.

SOURCE Pseudomonas sp.

ORGANISM Pseudomonas sp.

Bacteria; Proteobacteria.

REFERENCE 1

AUTHORS Ja Shin,K., Youn Sung,K., Seung Goun,L., Won Jung,C., Seok Youn,K.,  
Ook Joon,Y., Ghun Bin,Y. and Jang Ryol,L.TITLE Cloning of Alkaligenes lactus Poly-b-hydroxyalkanoic Acid  
Biosynthetic Genes and Their Expression in Escherichia coli

JOURNAL Unpublished

REMARK (sites)

REFERENCE 2 (bases 1 to 275)

AUTHORS Youn Sung,K.

TITLE Direct Submission

JOURNAL Submitted (11-SEP-1996) Youn Sung K., Korea Research Institute of  
Bioscience and Biotechnology, Plant Cell and Molecular Biology  
Researct, Yusung, Taejon, Korea

FEATURES Location/Qualifiers

source

1..275

/organism="Pseudomonas sp."

/db\_xref="taxon:306"

gene

1..275

/gene="phaC"

CDS

&lt;1..&gt;275

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/function="PHB synthesis"

/codon\_start=1

/transl\_table=11

/product="polyhydroxybutyrate synthase"

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/db\_xref="GI:3115090"

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BASE COUNT 58 a 87 c 72 g 58 t

ORIGIN

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181  ccaggcaagc tcacggtgtg cggcgaaaag ctggacctgg gcaatctcga ttgcccggtc
241  tacatctatg gctcgcgcga agaccacatc gtgcc

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//



PubMed

Nucleotide

Protein

Genome

Structure

PMC

Taxonomy

OMIM

Books

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Go

Clear

Limits

Preview/Index

History

Clipboard

Details

Display default

Show: 20

Send to File

Get Subsequence

1: J05003. A.eutrophus poly-...[gi:141958]

Links

LOCUS AFAPHBAA 2768 bp DNA linear BCT 26-APR-1993  
 DEFINITION A.eutrophus poly-beta-hydroxybuterate-C (phbC) gene, complete cds  
 and poly-beta-hydroxybuterate-A (phbA) gene, 5' end.

ACCESSION J05003

VERSION J05003.1 GI:141958

KEYWORDS poly-beta-hydroxybuterate polymerase.

SOURCE Ralstonia eutropha

ORGANISM Ralstonia eutropha

Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales;  
 Ralstoniaceae; Ralstonia.

REFERENCE 1 (bases 1 to 2768)

AUTHORS Peoples, O.P. and Sinskey, A.J.

TITLE Poly-beta-hydroxybutyrate (PHB) biosynthesis in Alcaligenes  
 eutrophus H16. Identification and characterization of the PHB  
 polymerase gene (phbC)

JOURNAL J. Biol. Chem. 264 (26), 15298-15303 (1989)

MEDLINE 89359357

PubMed 2670936

COMMENT Original source text: A.eutrophus (strain H16) DNA.

FEATURES Location/Qualifiers

source

1..2768

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/db\_xref="taxon:510"

gene

842..2611

/gene="phbC"

CDS

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/note="The 5' end of the phbC gene is putative.; putative"

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/product="poly-beta-hydroxybuterate polymerase"

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gene

2696..2768

/gene="phbA"

CDS

2696..2768

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